

1

Cairo Governorate

St. Joseph's School

Answer the following questions :

1. [A] Put (✓) or (x) and correct the wrong :

1. Red, green and yellow are primitive colours. ()
2. Bilharzia is example of external parasite. ()
3. Like magnetic poles repel. ()
4. By increase temperature solubility time decrease. ()
5. Yellow banana absorbs the all spectrum colors and reflects green colour. ()
6. There is dark shadow for clear water. ()

[B] What is the function of ... ?

1. Compass.
.....
2. Camouflage for frog.
.....
3. Stirring.
.....

2. [A] Write the scientific term :

1. The magnetic pole that is attracts North pole of another magnet. (.....)
2. A set used to change mechanical energy into electric energy. (.....)
3. The food relationship in which the organism get its food by decomposing the dead bodies. (.....)
4. It is the balance among the components of ecosystem. (.....)
5. Materials allow some coloured light to pass through them. (.....)
6. A darkened area formed when light falls on an opaque object. (.....)

[B] What happens when ... ?

1. Blue light strikes red glass sheet.
.....
2. Mixed a little amount of oil in water.
.....
3. Sunlight falls on a plane mirror.
.....

3. [A] Complete the following sentences :

1. process is used to separate salt from salty water while is used to separate iron from mixture of iron and sand.
2. Dieonea and are plants prey on insects to get required elements for making

3. Mushroom is example of while commensalism is one type of relationship among living organisms.
4. Fruit salad is an example of mixture while soda water is an example of mixture.
5. From examples artificial magnets is while is temporary magnet.
6. Light into seven colours when passes through prism, but it when it passes from water to air.

[B] What is meant by ... ?

1. Coloured opaque object appear with its own colour.

.....

2. Solvent.

.....

3. Pure substance.

.....

4. [A] Complete the table :

Name	The relation	The name of organism
1. Wolf and rabbit	..... (a)	The prey is (are) (d)
2. Nodular bacteria and bean plant	..... (b)	The benefit organism (or organisms) (e)
3. Mosquito and man	..... (c)	The parasite is (are) (f)

[B] Give reasons for :

1. Magnet attracts iron paper clips but it does not attract copper wire.
2. Sugar dissolves in 300 ml of water faster than in 150 ml of water.
3. White light is mixture colour not primitive colour light.

2 Cairo Governorate

El-Amal Language Schools

Answer the following questions :

1. [A] Complete the following sentences :

1. The food relationship in which both organisms get benefit from each other is known as

2. In salty solution, salt is the, while water is the
3. Sunlight is separated into colours by passing it through a
4. The magnetic force is most powerful at the of the magnet.

[B] What happens when ... ?

1. Light falls on a shiny surface.

.....
.....

2. Bacteria completely disappear.

.....
.....

3. A strong magnet is put close to a piece of wood.

.....
.....

2. [A] Correct the underlined words :

1. Disc drive and electric mixer contain dynamo. (.....)
2. The object seems black as it reflects all the light colors. (.....)
3. The solubility speed decreases by shaking and rising the temperature. (.....)
4. Two different kinds of living organisms, where one of them benefits from the other while the other is harmed and infects with diseases is saprophytism. (.....)

[B] Study the following figures, then :

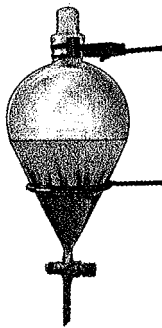


Figure (A)

- The figure represents the
- Function

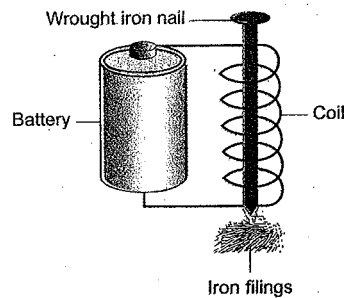


Figure (B)

- The figure represents the
- Function

[C] Give reasons for :

1. We must wear white clothes in summer season.

.....
.....

2. Some plants eat tiny insects.

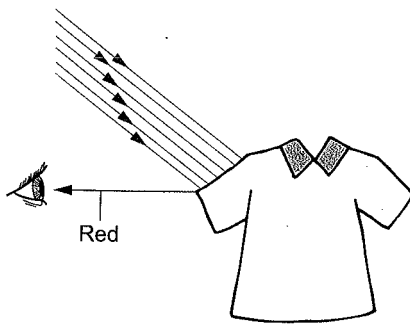
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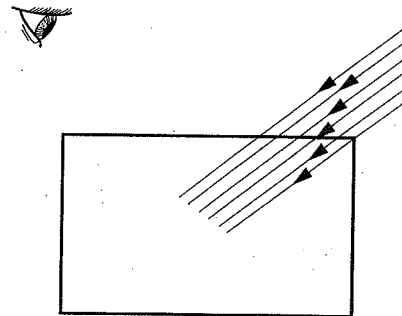
3. [A] Write the scientific term :

1. A relation between two living organisms that benefit from each other. (.....)
2. A substance that consists of more than one type of particles. (.....)
3. The change in the direction of the light when it passes through two different transparent media. (.....)

[B] What is the colour of the body in each case ... ?



1.



2.

[C] Mention the relation between :

1. Lion and deer.
.....
2. Sponge and the tiny aquatic living organisms.
.....

4. [A] Choose from column (A) what is suitable it from column (B) :

(A)	(B)
1. Salt solution	a. opaque material.
2. Carton	b. travels in straight line.
3. Mushroom fungus	c. reflects light.
4. Light	d. from saprophytes.
	e. mixture.

1.

2.

3.

4.

[B] Show how can you separate the following :

1. Sand – Water mixture.
.....

2. Iron fillings from sand.
.....

[C] Compare between :

Points of comparison	Primary coloured lights	Secondary coloured lights
Definition : ① ②
Examples : ③ ④

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Cairo Governorate

Nozha Language Schools

Answer the following questions :

1. [A] Choose the correct answer :

- Mixing all the primary coloured lights gives
a. black light. b. white light. c. red light.
- The speed of the solubility process by increasing the temperature.
a. increases b. decreases c. doesn't change
- The magnet has poles.
a. 4 b. 3 c. 2
- Bilharziasis disease is caused by
a. bilharzia worm. b. filaria worm. c. mosquito.
- The nearer objects to the light source has the shadow.
a. smaller b. bigger c. faded
- is the food relationship that occurs between predator and prey.
a. Symbiosis b. Saprophytism c. Predation
- The white light splits into colours.
a. 3 b. 6 c. 7

[B] Mention the name only of the following tool or process :

- It is used to separate sand from water :
- It is used to determine the four main direction :
- It is used to separate the oil from water solution :

[C] What happens it ... ?

- The electric current flows through a coil twisted around an iron nail.
.....

2. You put a part of the pencil in a cup of water.

.....

2. [A] Write the scientific term :

1. The light energy that can be seen. (.....)
2. A natural area including living organisms and non living things. (.....)
3. The substance that is made of only one type of identical particles. (.....)
4. A phenomenon in which harmless living organism imitate other harmful or poisonous living organisms to frighten their enemies and escape from them. (.....)
5. It is the main source of light on the Earth. (.....)

[B] Correct the underlined words :

1. Rainbow is the darkened area that formed as a result of light falling on an opaque object. (.....)
2. The dynamo changes the electric energy into magnetic energy. (.....)
3. Wolf and ascaris hide from enemies by changing its colour to simulate the surrounding environment. (.....)
4. The Prism is used in electric bells and to lift tons of steel or iron. (.....)
5. Bouncing of light when it falls on a surface is called light refraction. (.....)

3. Complete the following sentences :

1. The clear water is a material while wood is material.
2. In salty solution, salt is the while water is the
3. and are from the shapes of the artificial magnets.
4. The relationship between nodular bacteria and bean plant is called
5. The secondary coloured lights are, and
6. The factors that affect the speed of solubility are temperature, and

4. [A] Put (✓) or (x) :

1. The unlike poles of the magnets repel each others. ()
2. Water is the most common solute. ()
3. Nickel and iron are attracted to the magnet. ()
4. Light travels in curved line. ()
5. Predation is more common in plant world than that in animal world. ()
6. The wire of the dynamo is made up of copper. ()

[B] Choose from column (A) what is suitable it from column (B) :

(A)	(B)
1. Mosquito 2. Commensalism 3. Drosera 4. Producers	a. make their food during photosynthesis process. b. is considered from the insectivorous. c. is a food relationship between two living organisms where one of them get benefits from the other while the other neither gets benefit nor harmed. d. is considered as an external parasitism.

1. 2. 3. 4.

[C] Give reasons for :

1. Milk is a mixture.

2. We must wear white clothes in summer.

4

Cairo Governorate

Basateen and Dar El-Salem Educational Administration

Answer the following questions :

1. [A] Choose the correct answer :

- A sheet of aluminium foil is an example for material.
 - a. transparent
 - b. opaque
 - c. translucent
 - d. all the previous
- Light travels in straight lines. This principle is the idea of making
 - a. electric iron.
 - b. radio.
 - c. electric heater.
 - d. camera.
- If you put an object at a distance of 20 cm in front of a mirror, the distance between the image and the object equals
 - a. 10 cm.
 - b. 20 cm.
 - c. 30 cm.
 - d. 40 cm.
- The speed of light in air is that in water.
 - a. faster than
 - b. slower than
 - c. equal to
 - b. half
- Which of the following is magnetic material ?
 - a. Chalk.
 - b. Nail.
 - c. Paper.
 - d. Glass.
- The dynamo generates energy from mechanical energy.
 - a. thermal
 - b. electrical
 - c. light
 - d. magnetic

7. The magnet which is made by the effect of electricity is called
 a. natural magnet. b. electromagnet. c. magnetic. d. b and c
8. The process of photosynthesis is done by living organism.
 a. consumer b. producer c. decomposer d. saprophyte

[B] How can the following mixtures can be separated :

1. Paper clips and flour :
2. Mud in water :

2. [A] Write the scientific term :

1. A tool used to identify the four geographical direction. (.....)
2. The materials that don't attract to magnet. (.....)
3. The natural area that including living and non living things. (.....)
4. An apparatus used to separate immiscible liquid mixtures. (.....)

[B] What happens when ... ?

1. You suspend a bar magnet to move freely.

2. Mixing green and blue lights.

3. [A] Put (✓) or (✗) in front of the following statements :

1. When the white light strikes a red rose, it reflects the white light. ()
2. The image formed by using narrow holes is maximized and inverted. ()
3. The north pole of a magnet attracts the north of the other magnet. ()
4. Blue, green and red lights are the primary coloured lights. ()

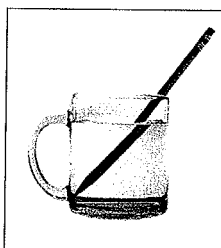
[B] Identify the type of the food relation among the following organisms using one of these choices : (Predation – Parasitism – Mutualism – Saprophytism)

1. Bilharizia worm and man. (.....)
2. Lion and deer. (.....)
3. Nodular bacteria and roots of leguminous plants. (.....)
4. Bread mold fungus. (.....)

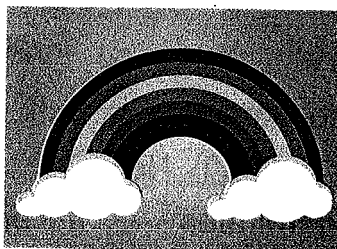
4. [A] Choose the correct answer for the following diagrams, then complete the following sentences :
 (Light reflection – Rainbow – Light refraction – U shape magnet – Shadow)



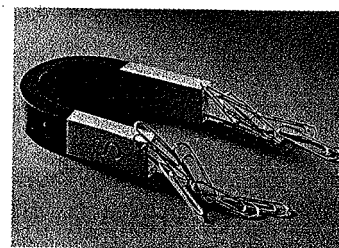
a.



b.



c.



d.

1. The is the reason for seeing the spoon broken in the cup of water.
2. The nearer object to the light source has shadow.
3. Rainbow is formed due to the as each water drop acts as

[B] Give reasons for :

1. You can see your image on a plane mirror.
.....
.....

2. The formation of shadow.
.....
.....

5

Cairo Governorate

Nasr Official language School

Answer the following questions :

1. [A] Choose the correct answer :

1. All the following materials are not attracted to the magnet except
a. plastic. b. paper. c. glass. d. nickel.
2. All the following are external parasites except
a. lice. b. ticks. c. liver worm. d. lamprey.
3. The dynamo generates energy from the mechanical energy.
a. heat b. electric c. light d. kinetic
4. When light passes from water to air, light is
a. reflected. b. analyzed. c. refracted. d. collected.
5. The solvent in a mixture of chocolate and milk is
a. milk. b. chocolate. c. water. d. oil.
6. All the following cause a disturbance to the environmental balance except
a. cutting down trees. b. natural changes.
c. disappearance of organisms. d. saprophytes.

[B] Give reasons for :

1. Plants are called autotrophic organisms.
.....

2. A banana fruit seems yellow when sunlight falls on it.
.....

3. Air is considered as a mixture.
.....



2. [A] Complete the following sentences :

1. and are from the ways of self-defence against predation in living organisms.
2. The object's image formed through narrow holes is and
3. Predators help preys in getting rid of or members.
4. The like poles each other, whereas the unlike poles each other.

[B] What is the importance ... ?

1. Electromagnet :
2. Glass prism :

3. [A] Write the scientific term :

1. A set that is used for locating the main four geographical directions. (.....)
2. A darkened area formed when light falls on an opaque object. (.....)
3. The space around a magnet in which the magnetic force appears. (.....)
4. The natural area which includes living organisms and non-living things. (.....)
5. The temporary food relationship that ends by devouring the prey or a part of it. (.....)
6. A set is used to separate water – oil mixture. (.....)

[B] Mention the kind of food relationship between each of the following :

1. Nodular bacteria and bean plant :
2. Fungi and dead organisms :

[C] What will happen when ... ?

1. A magnet is hanged to move freely.
.....
2. Mixing red colour with green colour.
.....

4. [A] Put (✓) or (x) in front of the following statements :

1. The black opaque objects absorb all the light colours and reflect their own colour only. ()
2. Blue, green and red lights are primary coloured lights. ()
3. As the temperature of a solvent increases the solubility time decreases. ()
4. Red is the first colour in the spectrum colours, but violet is the last colour. ()

5. Internal parasites feed by sucking host's blood. ()
6. Magnetism decreases as we go from two poles of magnet towards its middle. ()

[B] How can you separate the following mixtures ... ?

1. Paper clips and flour :
2. Salt and water (salt solution) :

[C] Compare between :

Opaque materials	Transparent materials
.....
.....
.....
.....
.....

6

Cairo Governorate

Manaret El-Eman Language School

Answer the following questions :

1. Choose the correct answer :

1. All the following are examples of mixtures except
a. concrete. b. milk. c. sugar.
2. Dinosaurs are extinct animals due to
a. pollution. b. over hunting. c. change in natural condition.
3. The primary colours are red, blue and
a. magenta. b. green. c. yellow.
4. The food relation between cat and rat is an example of
a. parasitism. b. predation. c. symbiosis.
5. The mixture of iron filings and sand can be separated by
a. magnetic attraction. b. evaporation. c. filtration.
6. A black opaque object all the light colours.
a. absorbs b. reflects c. refracts
7. The natural magnet is one of the ores.
a. copper b. aluminium c. iron

- 2. [A] Complete the following sentences :**

- [B] Mention one importance for the following ... ?**

- ### 1. Glass prism :

- ## 2. Electromagnet :

.....

- ### 3. Evaporation process :

.....

- [C] If you have a piece of iron and a bar of magnet, How can you differentiate between them (by using paper clips) ?**

- [D] Define ... ?**

- ## 1. Energy :

.....

- ## 2. Magnetic material :

- 3. [A] Write the scientific term :**

1. A set used to generate the electric current by using a magnet and a coil.

$$\left(\begin{array}{c} \vdots \\ \vdots \\ \vdots \end{array} \right)$$

2. Phenomenon in which organisms simulate the colour of the environment. (.....)
3. The natural area that includes living organisms and non-living things. (.....)
4. The light that is produced by mixing two primary coloured lights. (.....)
5. A set used to separate oil from water. (.....)
6. A tool that is used for locating geographic direction. (.....)
7. The substance in which the solute dissolves. (.....)

[B] Give reasons for :

1. Shadow is formed when light falls on an opaque object.
.....
2. The pen appears broken in glass of water.
.....

[C] Correct the underlined words :

1. Alcohol is a common solvent. (.....)
2. Natural magnet is a red rock. (.....)
3. Solubility speed decreases by rising the temperature. (.....)

4. [A] Put (✓) or (x) :

1. The Sun is the main source of light on the Earth. ()
2. Pure substance is the substance that is made of only one type of identical particles. ()
3. Water, alcohol and benzene are examples for solvents. ()
4. Filtration process is used to separate solid materials that are soluble in water. ()
5. Vegetable salad is considered to be a homogeneous mixture. ()

[B] Choose from column (A) what's suitable it from column (B) :

(A)	(B)
1. Jawless lamprey	a. is an internal parasite.
2. Light refraction	b. changes mechanical energy into electric energy.
3. Light reflection	c. is the return back of light when it falls on an object.
4. Electric generator	d. is the change of direction of light ray when it enters a new medium at an angle.
5. Ascaris worm	e. is an external parasite.

1. 2. 3. 4. 5.

[C] What happens if ... ?

1. Red colour light falls on a white ball.

.....

2. When a magnet is hanged freely to move.

.....

7

Giza Governorate

El Agoza Educational Directorate

Answer the following questions :

1. [A] Complete the following sentences :

1. The spectrum colours start with and end with
2. Bilharzia worms hurt man and are named internal while the organisms they hurt are called
3. Iron filings and sand can be separated by while sand and water can be separated by
4. Mixing and Coloured lights gives yellow colour.

[B] What happens if ... ?

Putting the north poles of a magnet near the south pole of another magnet.

.....

2. [A] Write the scientific term :

1. The relationship between a lion and a deer. (.....)
2. Tools used to locate the main four directions. (.....)
3. A process used to separate salt from water. (.....)
4. A dark area that is formed when light falls on an opaque object. (.....)

[B] Correct the underlined words :

1. Magenta is a primary colour. (.....)
2. Bread mold fungus is considered as aparasite. (.....)

3. [A] Choose the correct answer :

1. Light travels in lines.

a. curved	b. straight
c. zigzag	d. curved and zigzage
2. Plants that can't make their protein are called

a. hosts.	b. insectivorous plant.
c. preys.	d. parasites.

3. is a magnetic material.

- a. Gold b. Iron c. Copper d. Aluminium

4. The material that dissolves to produce solution is called

- a. mixture. b. solvent. c. solute. d. compound.

[B] Give reasons for :

1. Water is called a common solvent ?

.....

2. Electromagnet is considered a temporary magnet ?

.....

4. [A] Put (✓) or (✗) :

1. White paper absorbs all colours. ()
2. Some types of mosquitoes infect man with malaria disease. ()
3. Magnetism is always related with electricity. ()
4. The direction of freely moving magnet is north - south direction. ()

[B] Mention one use of :

1. Glass prism :

.....

2. Electromagnet :

.....

8

Giza Governorate

Child Home Language School

Answer the following questions :

1. Complete the following sentences :

1. Factors affecting solubility process are and
2. The magnet has poles which are and
3. The white light consists of
4. Mixing red and green light gives light colour.
5. Water and clear glass are media, while tissue paper is media.
6. The is the main source of light on the Earth.
7. When light falls on a dark body, it to my eyes.
8. is an example of external parasites.

2. [A] Give reasons for :

1. The green plants are autotrophic organisms.

.....



2. Table salt can be separated from sea water.

.....

3. We must increase the number of coil turns in the electromagnet.

.....

[B] Give one example for :

1. Large ecosystem :

.....

2. Non-magnetic substance :

.....

3. Non-living component of ecosystem :

.....

4. Pure substance :

.....

3. [A] Write the scientific term :

1. Mixing two primary coloured light blue and red produces. (.....)

2. Food relationship in which two organisms get benefit. (.....)

3. The change in the direction of light rays when they pass through two transparent medium. (.....)

4. The light energy that can be seen. (.....)

[B] Write one use for :

1. Compass :

.....

2. Electromagnet :

.....

3. Dynamo :

.....

4. Glass prism :

.....

4. [A] Put (✓) or (x) :

1. Food relation in which decomposers get their food by decomposing food remains is known as saprophytism. ()

2. Shark is an example of predator animal. ()

3. Similar magnetic poles repel each other. ()

4. Wood is an example of translucent material. ()

[B] What happens if ... ?

1. Light rays fall on shiny surface.

.....
.....

2. You move a wire between two poles of a magnet.

.....
.....

3. The amount of the solute increases.

.....

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Giza Governorate

6th October Educational Zone

Answer the following questions :

1. [A] Complete the following sentences :

1. The spectrum colours starts with and end with
2. The dynamo changes the energy into energy.
3. Examples of opaque materials are and
4. Mixing and coloured lights gives yellow colour.
5. Like poles each other where dislikes poles each other.

[B] Show how you can separate the following mixtures ?

1. Salt from salty water.

.....

2. Iron filings from sand.

.....

2. [A] Choose the correct answer :

1. Light travels in a line.

a. curved

b. straight

c. zigzag

d. curved

2. is a magnetic material.

a. Gold

b. Iron

c. Copper

d. Aluminium

3. An examples of decomposers is the

a. fungi.

b. rabbits.

c. plants.

d. lions.

4. If you look at a yellow banana through a green glass sheet it seems

a. yellow.

b. green.

c. black.

d. red.

[B] Give reasons for :

1. The pen appears broken when put it in a cup of water.

2. Air is a mixture.

3. [A] Write the scientific term :

1. Any natural area contains living organisms and non-living things. (.....)

2. The main source of light on the Earth. (.....)

3. A device used to locate the four main geographical directions. (.....)

4. The darkened area formed as a result of falling light on an opaque object.
 (.....)

5. A phenomena where living organisms can change its colour to hide from its enemies.
 (.....)

[B] Mention one use of :

1. The electromagnet :

2. Glass prism :

4. [A] What happens when ... ?

1. If there are no predators.

2. The light when it falls on a smooth bright surface.

[B] Correct the underlined words :

1. Solubility speed decrease by rising the temperature. (.....)

2. Ascaris worms are external parasites. (.....)

3. Insectivorous plants cannot make fats. (.....)

4. Alcohol is called a common solvent. (.....)

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Giza Governorate

Dar El-Hanan Language Schools

Answer the following questions :

1. [A] Complete the following sentences :

1. As the light falls on the green grass, the grass must absorb colours except

2. is considered as a common solvent due to its ability to dissolve several substances.
3. Green plants are organisms.

[B] Name the equipment that can be used in this case :

Converting of mechanical energy into electric energy.

.....

2. [A] Put (✓) or (x) and correct the wrong one :

1. Yellow, magenta and cyan are primary light colours. ()
.....
2. Light transmits in straight lines. ()
.....
3. The oil and water can be separated by filtration. ()
.....
4. Fungi feeding on the dead organisms bodies is called saprophyte. ()
.....

[B] Give reasons for :

1. The moon can't be considered as a source of light.
.....
2. Air is a mixture.
.....

3. [A] How can you separate the following mixtures ?

1. Sand solution.
.....
2. Paper clips and flour.
.....
3. Salty solution.
.....
4. Water containing mud.
.....

[B] Write one difference between the following :

The magnetic and non-magnetic materials.

.....

.....

4. [A] Write the scientific term :

1. A temporary relationship between two different organisms with a benefit to one and harm to the other. (.....)
2. Darkened area formed behind an object once light falls on it. (.....)



3. A tool that is used for locating the main four geographic directions.

(.....)

4. The material at which the solute disappear in it.

(.....)

[B] What happens if ... ?

1. When you look at a spoon put in a beaker contains water.

.....

2. Cutting down of trees.

.....

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Alexandria Governorate

East Alex. Educational Zone

Answer the following questions :

1. [A] Complete the following sentences :

1. Like magnetic poles each other, while unlike magnetic poles each other.

2. and are ways of self-defense against predation.

3. Light cannot pass through materials.

4. substance consists of one type of identical particles.

[B] Correct the underlined words :

1. Light travels in curved lines.

(.....)

2. The magnet has three poles.

(.....)

3. Bread mold fungus is a predator.

(.....)

2. [A] Write the scientific term for each of the following :

1. The living organisms that clean the Earth's surface from dead bodies.

(.....)

2. A device which is used to change magnetic energy into electric energy.

(.....)

3. The objects that absorbs all light colours that fall on them.

(.....)

4. The common solvent that has the ability to dissolve several substances.

(.....)

[B] What happens when ... ?

1. Passing of electric current in a coil around a rod of soft iron.

.....

2. Heating salty water for a long time.

.....

3. [A] Choose the correct answer :

- The jawless lamprey is a
a. host. b. parasite. c. predator.
- If you look at a red apple through red glass sheet, it looks
a. blue. b. red. c. black.
- A pencil is seen broken in a cup of water due to light
a. refraction. b. reflection. c. separation.
- Solubility process is affected by
a. heating. b. stirring. c. heating and stirring.

[B] Mention the kind of food relationship for each the following :

1. Nodular bacteria and bean plant.
2. Sponge and tiny aquatic living organisms.

4. [A] Cross the odd word out :

1. Distilled water - Mineral water - Vegetable salad - Fruit salad. (.....)
2. Wood - Plastic - Iron - Glass. (.....)
3. Air - Clear water - Frosted glass - Glass. (.....)

[B] Give reasons for :

Compass is used in planes.

[C] Mention the way of separating the following mixtures :

1. Oil and water.

2. Sand and iron filing.

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Alexandria Governorate

El-Gomrok Educational Zone

Answer the following questions :

1. [A] Choose the correct answer :

1. The substance in which solids dissolve is called
a. solubility process. b. solvent. c. solute. d. sugar.

2. We can see objects due to of light on them.
 - a. reflection
 - b. refraction
 - c. shadow
 - d. spectrum colours
3. A scientist who discovered that the magnetic energy can be changed into electrical energy
 - a. Newton.
 - b. Faraday.
 - c. William Gilbert.
 - d. Hasan ibn al-hatham.
4. An is any nature area including living organisms and non-living things.
 - a. ecosystem
 - b. artificial
 - c. saprophytes
 - d. (a), (b) and (c)

[B] Mention one use of :

1. Glass prism.

.....

2. Separating funnel.

.....

2. [A] Complete the following statements :

1. is considered a common solvent.
2. Increasing reduces the solubility time.
3. The food relationship in which one living organism devours another one is know as
4. The like poles each other, whereas the unlike poles each other.

[B] Give reasons for :

1. Some materials are called magnetic materials.

.....

2. Formation of images through narrow holes.

.....

3. [A] Write the scientific term :

1. A set is used for locating the main four geographical directions. (.....)
2. The phenomena in which a living organism can change its colour to hid from its enemies. (.....)
3. The substance that consists of more than one type of identical particles. (.....)

[B] Choose from column (B) what is suitable it from column (A) :

(A)	(B)
1. Saprophytism	a. the relationship between man and worms.
2. Mutualism	b. a relationship between fungi and food remains.
3. Parasitism	c. the relationship between the nodular bacteria and legumes plant.

1. 2. 3.

4. [A] Correct the underlined words :

- Sand and water mixtures can be separated by magnetic attraction. (.....)
- The electromagnet changes electric energy into heat energy. (.....)
- Mosquito conveys plugs disease to man. (.....)
- red, green and blue are called secondary colours. (.....)

[B] What happens when :

- On mixing the red colour with the green colour.
.....
- Bacteria disappear completely.
.....

13

Alexandria Governorate

South Alex. Educational Zone

Answer the following questions :

1. [A] Correct the underlined words :

- Concrete and tomato sauce are considered a pure substance. (.....)
- Ascaris worms are external parasites. (.....)
- Light travel in curved lines. (.....)
- Alcohol is called a common solvent. (.....)
- By increasing the temperature the time taken to dissolve solute increases. (.....)
- A magnet has three poles. (.....)

[B] What happens when ... ?

- A magnet is hanged freely to move.
.....
- Approaching a magnet to mixture of sand and steel paper clips.
.....
- Looking at red apple through green glass sheet.
.....

2. [A] Classify :

Copper – Nickel – Chalk pieces – Aluminium – Paper clips – Iron

Magnetic materials	Non-magnetic materials
.....
.....
.....
.....
.....

[B] Give reasons for :

1. Sugar is a pure substance.

.....

2. Spoon appears broken in transparent cup filled with water.

.....

3. [A] Write scientific term :

- The plants that devours tiny insects. (.....)
- A set used to identify the main four directions. (.....)
- A form of energy which can be seen. (.....)
- It is the substance that dissolves in solvent. (.....)
- Any natural area including living organisms and non-living things. (.....)
- Darkened area formed behind an object once light falls on it. (.....)

[B] Choose from column (A) what is suitable with column (B) :

(A)	(B)
1. The relation between a cat and a rat is	a. causes elephantiasis disease.
2. A food relationship between two organisms benefit from each other	b. mutualism.
3. Falaria worm	c. predation.

1.

2.

3.

4. [A] Complete the following sentences :

- Like magnetic poles each other, while the dislike magnetic poles
- You can separated a mixture of oil and water by
- From primary light,,

[B] Choose the correct answer :

1. Mosquito conveys disease to man.
a. plague b. malaria c. elephantiasis
2. To separate salt from salty water we use
a. filter paper. b. a separating funnel.
c. the evaporation process.
3. The natural magnet is one of the ores.
a. copper b. carbon c. iron
4. Green plants are considered organisms.
a. decomposer b. producer c. parasite
5. Chameleon tends to make
a. mimicry. b. camouflage. c. symbiosis.
6. Filtration is used to separate mixture.
a. salt and surge b. iron filings and sand c. sand and water

14

El-Qalyoubia Governorate

Science Inspectorate

Answer the following questions :

1. [A] Complete the following sentences :

1. The spectrum colours start with and end with
2. By increase the quantity of solvent the solubility time
3. The idea of electric generator is change energy into energy
4. The relationship between sponge and tiny aquatic living organisms is
5. Sand-water mixture can be separated by
6. worm causes elephantiasis disease.

[B] Choose the correct answer :

1. Predation the number of prays in the ecosystem.
a. increases b. decreases c. organizes
2. is used to located the main four directions.
a. Compass b. Dynamo c. Prism
3. The blue t-shirt seems behind red glass sheet.
a. blue b. red c. black
4. The common solvent is
a. alcohol. b. water. c. benzene.



2. [A] Give reasons for :

1. The image through narrow holes is inverted and minimized.

.....

2. Predation is temporary food relationship.

.....

3. Mineral water is a mixture but sugar is pure substance.

.....

4. Yellow is called secondary coloured light.

.....

[B] Correct the underlined words :

1. Newton is the scientist who discovered dynamo.

(.....)

2. Ascaris*worm is external parasite.

(.....)

3. Aluminium is a magnetic material.

(.....)

4. Salt and water are mixed by grinding.

(.....)

3. [A] Write the scientific term :

1. A darkened area formed when light falls on opaque object.

(.....)

2. Any natural area contains living organisms and non-living things.

(.....)

3. The food relationship between nodular bacteria and leguminous.

(.....)

4. A set used to change electric energy into magnetic energy.

(.....)

[B] Put (✓) or (x) :

1. Insect-eaters plants prey insects to prepare fats.

()

2. Mixing red, green and blue produce white light.

()

3. Air is transparent material.

()

4. The formed image in the mirror due to light refraction.

()

4. [A] What happens when ... ?

1. Hanging a bar magnet to move freely.

.....

.....

2. Bacteria disappear from environment.

.....

.....

[B] Look at the opposite figure then answer :

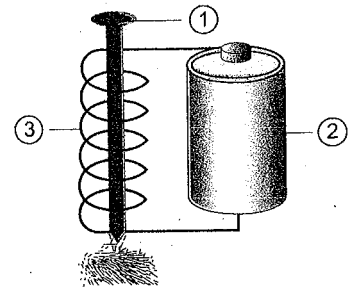
1. The figure represent

2. Label the figure :

①

②

③



[C] Choose from column (B), what is suitable it from column (A) :

(A)	(B)
1. Bread mold fungi	a. mixtures
2. Salt and sugary solutions	b. appear after rains
3. Tissue paper	c. translucent
4. rainbow	d. saprophytes

1.

2.

3.

4.

15

El-Gharbia Governorate

Gharbia Educational Directorate

Answer the following questions :

1. [A] Complete the following sentences :

1. Yellow, and are known as "secondary light colours".

2. Like poles each other, whereas unlike poles each other.

3. It is possible to separate iron filings from the mixture by using while is used to separate salt from sea water.

4. Mosquito is an parasite, while ascaris worm is an parasite.

[B] Compare between each of the following :

1. Magnetic materials and non-magnetic materials. (According to definition)

.....
.....

2. Pure substances and mixtures. (According to their structure)

.....
.....

2. [A] Choose the correct answer :

1. Red light + Green light + Blue light =

a. Yellow.

b. Magenta.

c. White.

2. A tool that is used for locating the four main directions

a. dynamo.

b. compass.

c. electric lamps.



3. Increasing temperature solubility time.
 - a. increase
 - b. decreases
 - c. does not effect
4. An example of decomposers is the
 - a. fungi.
 - b. rabbits.
 - c. plants.

[B] What happens when ... ?

1. You look at a red apple through a green transparent glass sheet.

.....

2. Bacteria disappeared completely.

.....

3. [A] Write the scientific term :

1. The seven colours which the white light is made up of. (.....)
2. One of the iron ores which is known as magnetite. (.....)
3. It is the substance in which the solute disappears. (.....)
4. It is the food relationship among living organisms in which one living organism devours another one. (.....)

[B] Give reasons for :

1. The pencil placed inside a glass of water seems as if it was broken at the water's surface ?

.....

.....

2. Water is a common solvent.

.....

.....

4. [A] Put (✓) at the front of the right statement and (x) at the front of the wrong one :

1. Object's image is formed because light travels in curved lines. ()
2. When the white light strikes a red rose, it reflects the white colour. ()
3. A separating funnel is used to separate immiscible liquid mixtures. ()
4. Green plants are considered as consumer organisms. ()

[B] Choose one of the following terms to form a proper food chain :

(Snake – Wheat – Sheep)

1. The producer in the chain is
2. The predator in the chain is
3. The herbivore in the chain is
4. The relationship between a snake and a rat is known as a

16 Dakahlia Governorate

Science Inspectorate

Answer the following questions :

1. [A] Choose the correct answer :

- Mixing green light with red light produces light.
a. cyan b. yellow c. magenta d. blue
- is a common solvent.
a. Water b. Alcohol c. Mercury d. Benzene
- Black opaque object all light colours.
a. absorbs b. reflects
c. transmits d. all the previous
- is attracted to th magnet.
a. Chalk b. Glass c. Cobalt d. Aluminium
- When you look at a red apple from a yellow glass sheet, the apple seems
a. red. b. blue. c. black. d. yellow.
- The solute in chocolate-milk solution is
a. milk. b. chocolate.
c. water. d. all the previous.

[B] Give reasons for :

- Formation of shadow when light falls on an opaque body.
.....
.....
- Mineral water is considered as a mixture.
.....
- We see a picture behind the glass clearly.
.....
.....

2. [A] Complete the following sentences :

- is any area including living and nonliving organisms.
- When light passes from water to air it because light speed through air is than that through water.
- Electromagnet changes energy to energy.
- The substances can be divided into and due to their magnetic ability.



[B] Show how can separate the following ?

1. Salt from salty solution. (.....)
2. Chalk powder from water. (.....)
3. Oil from oil-water mixture. (.....)
4. Steel paper clips and flour. (.....)

3. [A] Correct the underlined words :

1. Natural magnet is one of the copper ores.. (.....)
2. The green colour is between yellow and indigo in rainbow. (.....)
3. Very large ecosystem as desert. (.....)
4. Camouflage helps in keeping the environment balance. (.....)
5. Yellow light is a primary colour. (.....)
6. The motor is used in making electric bell. (.....)

[B] Write the scientific term :

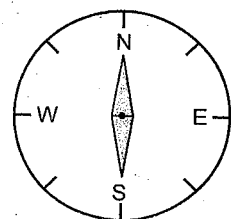
1. The region of the magnet where the magnetic force is the most powerful. (.....)
2. A mixture in which solute disappeared in the solvent. (.....)
3. The light energy that can be seen. (.....)
4. The type of material which appears with the reflected colour. (.....)
5. An insectivorous plant. (.....)
6. The organism that feeds on decomposing the moist wet bread. (.....)

4. [A] Mention the kind of relation between each of the following :

1. Lion and deer. (.....)
2. Bread mold fungus and moist bread. (.....)
3. Nodular bacteria and bean plant. (.....)
4. Mosquitoes and man. (.....)

[B] Look at the opposite figure then answer the following :

1. The opposite figure represents
2. The device consists of can spin freely around a fixed axis.
3. It is used to



[C] What happen when ... ?

1. When you look at a spoon placed in glass contains water.

.....
.....

2. When a man infected by filaria worm.

.....

17

Ismailia Governorate

Science Inspectorate

Answer the following questions :

1. [A] Complete the following sentences :

- White light consists of colours, which are called colours.
- Solid materials can be mixed by or
- The magnet is black stone made of iron ores which called
- The like poles each other, whereas the poles attract each poles.

[B] Choose from column (B) what is suitable it in column (A) :

(A)	(B)
1. Sugar	a. causes malaria disease.
2. Air	b. get by mixing two primary colours.
3. Mushroom fungus	c. is a mixture.
4. Secondary light colours	d. is from saprophytes.
	e. is a pure substance.

1.

2.

3.

4.

2. [A] Give reasons for :

1. When light fall on a white paper, it appears white colour.

.....

2. The formation of image through narrow holes.

.....

3. It is preferable to increase the number of coil turns in the electromagnet.

.....

[B] Write the scientific term :

1. The phenomenon formed in the sky after rain and sun still shining. (.....)
2. The substance which dissolves in a solvent. (.....)
3. The food relationship between two living organisms that benefit from each other. (.....)
4. The materials that are attracted to the magnet. (.....)
5. It is the internal parasite which causes bilharzia disease. (.....)
6. Darkened area that formed as a result of falling light on an opaque object. (.....)

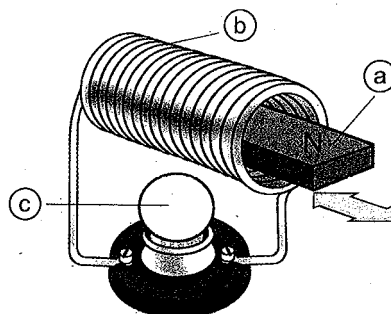
3. [A] Mention an example for each of the following :

1. A natural source of light. (.....)
2. A common solvent. (.....)
3. Insectivorous plants. (.....)
4. Large ecosystem. (.....)

[B] Look at the opposite figure then answer :

1. The name of the device is
2. Label this diagram

- (a)
 (b)
 (c)



4. [A] Identify the ways of mixtures separation by but (✓) in front of suitable way :

Mixtures	Magnetic attraction	Filtration	Separating funnel	Evaporation
1. Oil and water
2. Sugar and water
3. Iron filling and sand
4. Sand and water

[B] What happened when ... ?

1. You look at a red apple through a green glass sheet.

2. Hanging a magnet and allow it to move freely.

18

Port Said Governorate

Science Inspectorate

Answer the following questions :

1. Complete the following sentences :

1. The material in which light can transmit through is called
2. Like poles whereas dislike poles
3. The food relationship between cat and rat is
4. is a common solvent due to its ability to dissolve several substance.
5. Red light + Green light + Blue light =

2. [A] Choose the correct answer :

1. Light transmits in lines.
a. curved b. broken c. straight
2. The material that dissolves to produce solution is called
a. solvent. b. solute. c. mixture.
3. The natural magnet is discovered since ago.
a. 2000 b. 3500 c. 2050
4. takes place by some living organisms to hide from their enemies.
a. Commensalism b. Parasitism c. Camouflage

[B] Choose from the column (A) what is suitable it from column (B) :

(A)	(B)
1. A mosquito	a. causes elephantiasis.
2. Flaria worm	b. conveys plague.
3. Bread mold fungus	c. causes malaria.
4. Fleas	d. causes bread mold.

1. 2. 3. 4.

3. [A] Write the scientific term :

1. Darkened area formed behind an object once light falls on it. (.....)
2. Natural area including living organisms and non-living things. (.....)
3. A device used to convert kinetic energy into electric energy. (.....)

[B] Correct the underlined words :

1. When white light strikes a red rose, it reflects the white colour. (.....)
2. Increasing solvent amount, decreases the speed of solubility. (.....)
3. Salt and water are mixed together by stirring or grinding. (.....)

4. [A] Give reasons for :

Some materials are magnetic.

.....

[B] What happens when ... ?

On mixing the red coloured light with the green coloured light.

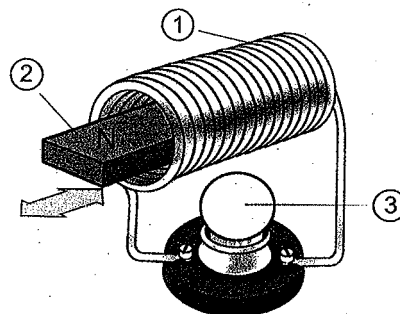
.....

[C] Identify the ways of mixtures separation by put (✓) in front of suitable way :

The mixture	Magnetic attraction	Filtration	Evaporation	Separation funnel
1. Iron filings and sand
2. Sand and water
3. Oil and water
4. Salt and water

[D] Study the following figure then complete :

- ①
- ②
- ③



19 Damietta Governorate

Science Inspectorate

Answer the following questions :

1. [A] Complete the following sentences :

- The material in which light can transmit through is called
- Fungi are considered as living organisms.
- Increasing reduces solubility time.
- Like poles each other.

[B] What is meant by each of the following ... ?

- Ecosystem.
-

- Shadow.
-

2. [A] Choose the correct answer :

- Light travels in lines.
 - Curved
 - straight
 - zigzag
 - Curved and zigzag
- Green plants are considered as organisms.
 - decomposer
 - consumer
 - producer
 - parasitic
- The material that dissolves to produce solution is called
 - solute.
 - solvent.
 - mixture.
 - compound.
- When a magnet is suspended freely, the magnet takes direction.
 - north-south
 - east-west
 - north-east
 - north only

[B] Give reasons for :

- We wear black clothes in winter.
.....
.....
- Aluminium and copper are considered as non-magnetic materials.
.....
.....

3. [A] Write the scientific term :

- A tool used to locate the main four directions. (.....)
- A process used to separate salt from water. (.....)
- A temporary relationship between two different organisms with a benefit to one and harm to the other. (.....)
- Is a mixture of gases such as oxygen, nitrogen and carbon dioxide. (.....)

[B] Mention one use for each of the following :

- Glass prism
- Electromagnet

4. [A] Correct the underlined words in each of the following statements :

- Separating funnel is used to separate the solid-liquid mixture. (.....)
- Natural magnet is a red rock. (.....)
- Red light + Green light = Cyan light. (.....)
- Mimicry is a phenomenon in which the living organism protects itself from enemies by changing its colour. (.....)

[B] What do you expect to happen in the following case ... ?

1. Seven spectrum colours are mixed together.

.....

2. Adding an insoluble substance to a certain solvent.

.....

20

Fayoum Governorate

 Science supervision for governmental
 language school

Answer the following questions :

1. Complete the following :

1. Mixing a small amount of mud with water forming solution that can be separated by
2. Like poles whereas dislike poles
3. The material in which light can transmit through is called
4. is considered to be a general solvent because of its ability of dissolving most materials

2. Correct the underlined words in each of the following statements :

1. Solubility speed decreases by shaking and rising the temperature. (.....)
2. Parasites get their food by decomposing food remains or dead bodies. (.....)
3. The formation of shadow due to traveling light in curved lines. (.....)
4. Copper is attracted to the magnet. (.....)
5. When light passes from air to glass, it reflects. (.....)
6. Frog hides from its enemies by mimicry. (.....)

3. Choose the correct answer :

1. The dynamo generates energy from mechanical energy.
 - a. thermal
 - b. electrical
 - c. light
 - d. kinetic
2. When a magnet is hanged freely, its north pole refers towards the
 - a. north.
 - b. south.
 - c. east.
 - d. west.
3. In food relationship between a man and a bilharzias worm, the man is a
 - a. predator.
 - b. prey.
 - c. host.
 - d. parasite.
4. The process of photosynthesis is done by a living organism.
 - a. producer
 - b. decomposer
 - c. consumer
 - d. all the previous

5. is used to separate a mixture of oil and water.
- | | |
|----------------------|------------------------|
| a. Evaporation | b. Filtration |
| c. Separating funnel | d. Magnetic attraction |
6. Red, green and blue light are lights.
- | | |
|------------------|--------------|
| a. primary | b. secondary |
| c. complementary | d. mix |

4. [A] Write the scientific term for each of the following statements :

- The liquid mixture which is composed of a solute and a solvent. (.....)
- The natural area including living organisms and non-living organisms.
(.....)
- The materials that don't get attracted to the magnet. (.....)
- The seven colours of light which sunlight (white light) is made up of.
(.....)

[B] Give reasons for :

- A magnet can be used to separate iron fillings from sand.
.....
- We prefer to wear black clothes in winter.
.....

21

El-Minia Governorate

St. Mark and El-Tawfik Schools

Answer the following questions :

1. Choose the correct answer :

- materials don't allow light to travel through.

a. Transparent	b. Translucent
c. Semi-transparent	d. Opaque
- An orange appears when you look at it through a blue transparent glass sheet.

a. red	b. yellow	c. green	d. black
--------	-----------	----------	----------
- The space around a magnet in which the magnetic force appears is called

a. magnetic pole.	b. magnetic substance.
c. non magnetic substance.	d. magnetic field.
- The coil of a dynamo is made up of wire.

a. carbon	b. copper	c. plastic	d. graphite
-----------	-----------	------------	-------------

5. All these factors affects solubility process except
- a. temperature.
- b. colour of solvent.
- c. stirring.
- d. type of solute.
6. Predation relationship the number of preys in populations.
- a. increases
- b. organizes
- c. decreases
- d. prevents

2. [A] Write the scientific term :

1. A darkened area formed when light falls on an opaque object. (.....)
2. The light that we can get by mixing two of the primary coloured lights.
(.....)
3. A set that is used for locating the main four geographic directions. (.....)
4. A set that is used to change mechanical energy into electric energy. (.....)
5. The temporary food relationship that ends by devouring
the prey or part of it. (.....)

[B] Give reasons for the following :

1. Copper is a non-magnetic substance.
.....
2. The formation of images through narrow holes.

3. [A] Complete the following sentences :

1. When a light ray passes from a glass rod to air, it
2. Red light + Green light + Blue light =
3. The like poles each other, whereas the dislike poles
each other.
4. The basic idea of working of the electromagnet is the changing of
energy into energy.
5. In salty solution, salt is the while water is the

[B] Choose from column (A) what is suitable it from column (B) :

(A)	(B)
1. Food relation between sponge and tiny aquatic living organisms	a. predation.
2. Food relation between man and liver worm	b. mutualism.
3. Food relation between plant and nodular bacteria	c. internal parasitism.
4. Food relation between a cat and a rat	d. commensalism.

1.

2.

3.

4

4. [A] Put (✓) or (x) then correct the wrong ones :

1. The formed image through narrow holes is inverted. ()
2. An object seems white as it reflects all light colours. ()
3. Distilled water is a mixture, while mineral water is a pure substance. ()
4. Mosquitoes infect man with elephantiasis. ()

[B] Show how you can separate the following :

1. Iron filings from sand.
.....
2. Salt from salty water.
.....
3. Oil from oil – water mixture.
.....
4. Sand from water – sand mixture.
.....

22

Assiut Governorate

Science Inspectorate

Answer the following questions :

1. [A] Complete the following sentences :

(predation – poles – solution – repel – attract)

1. Solute + solvent + $\xrightarrow[\text{process}]{\text{dissolving}}$
2. Like poles wheares unlike poles
3. The magnetic force is most powerful at the
4. The interaction between a cat and a rat is considered as an example of relationship.

[B] Define the following by using the following sentences :

(It is a natural area that contains living organisms, non-living things and the components of air including gases), It means the balance among the components of the ecosystem.

1. The ecosystem.
.....
2. Environmental balance.
.....

2. [A] Write the scientific term :

1. The materials that get attracted to the magnet. (.....)
2. Yellow, magenta and cyan colours. (.....)

3. The seven colours of light which sunlight is made up of. (.....)
4. A tool that is used for locating the four main direction. (.....)

[B] Give reasons for :

1. Tape worm is a parasite.

.....

2. An apple appears red when sunlight falls on it.

.....

3. [A] Put (✓) or (x) :

1. Solubility decreases by shaking and rising the temperature. ()
2. Aluminium gets attracted to the magnet. ()
3. Object's shadow is formed because the light travels in curved lines. ()
4. Fruit salad is considered a mixture. ()

[B] Look at the opposite figure, then answer :

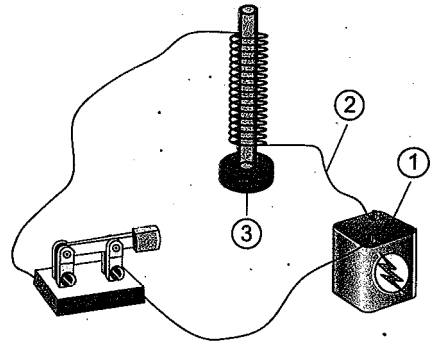
- The figure represents

- Label the figure

①

②

③



4. [A] Choose the correct answer :

1. The coil of a dynamo is made up of
 a. copper. b. carbon. c. iron.
2. Light can easily transmit through materials.
 a. transparent b. semi-transparent c. opaque
3. When a magnet is hanged freely it will take the direction
 a. north and east. b. north and south. c. east and west.

[B] How can the following mixtures be separated ?

1. Water and oil solution.

.....

2. Sand solution.

.....

3. Sand and iron filings.

.....

23

Aswān Governorate

New Aswan Distinct Official Language School

Answer the following questions :

1. [A] Complete the following sentences :

1. Like poles each other.
2. Light travels in line.
3. The prism separates sunlight into
4. The relationship between a scaris worm and a man is known as

[B] Give reasons for :

1. The banana appears yellow when sunlight falls on it.

.....

2. Predation is temporary relationship.

.....

2. [A] Choose the correct answer :

1. A materials that light cannot transmit through are
a. transparent. b. semi-transparent. c. opaque.
2. The coil of a dynamo is made up of wire.
a. copper b. carbon c. iron
3. Magenta, cyan and yellow light are lights.
a. primary b. secondary c. complementary
4. Uses in separation of a mixture of water and oil.
a. evaporation b. filtration c. separating funnel

[B] Mention the function each of :

1. The dynamo.

.....

2. Compass.

.....

3. [A] Put (✓) or (✗) :

1. Light is a form of energy. ()
2. Aluminium gets attracted to the magent. ()
3. Red + Green + Blue = White. ()
4. Spiders use their woven nets for catching insects. ()

[B] Complete the table :

Point of comparisons	Camouflage	Mimicry
Example	..... ① .....	..... ②
Point of comparisons	Mixture of sand and iron filings	Mixture of sand and water
Methods of separation	..... ③ .....	..... ④

4. [A] Write the scientific term :

- The darkened area formed behind an object once light falls on it.
(.....)
- The change of light rays directions when they transmit the separate surface between two different transparent media. (.....)
- Liquid used to dissolve the solute to make a solution. (.....)
- The relationship between two organisms that benefit from each other. (.....)

[B] Look at the opposite figure, and write the Labels :

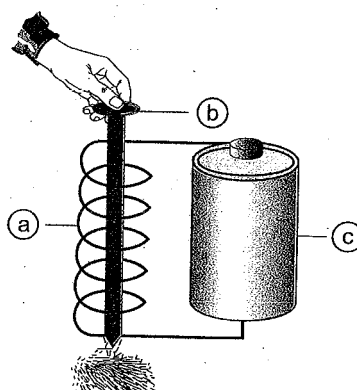
- The name of the device

- Label the figure

①

②

③



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Luxor Governorate

Luxor Educational Zone

Answer the following questions :

1. [A] Complete the following sentences :

- Bilharzia worms hurt and are named while the organisms it hurts are called hosts.
- Increasing reduces the solubility time.
- Compass consists of freely move.

4. Secondary colours are , and
5. Like poles each other.

[B] Name the equipment that can be used in each case :

1. Separation of light into seven colours. (.....)
2. Converting of mechanical energy into electric energy. (.....)

2. [A] What happens in each case of the following ... ?

1. When you look at a spoon put in a beaker contains water.
.....
2. Cutting down of trees.
.....
3. On mixing the seven colours.
.....

[B] Correct the underlined word :

1. The natural magnet is one of the copper ores. (.....)
2. Shadow is formed because light travels in curved lines. (.....)
3. Spiders uses their woven nest for catching fishes. (.....)

3. [A] Choose the correct answer :

1. Light travels in lines.
a. curved b. zigzagged c. straight
2. From examples of saprophytic organisms
a. fungi. b. rabbit. c. plant.
3. The solute in the mixture of chocolate and milk is
a. water. b. milk. c. chocolate.
4. The types of parasites are
a. external. b. internal. c. all the previous.
5. The natural magnet is discovered since ago.
a. 2000 b. 2020 c. 2500

[B] Mention the kind of food relationship between :

1. The lion and a deer :
2. Nodular bacteria and bean plant :

4. [A] Give reasons for :

1. Wood is a non-magnetic material.
.....

2. A piece of marble isn't disappearing when putting it in water.

3. The parasite doesn't kill its host.

[B] Write the scientific term for each of the following :

1. The material that get attracted to the magnet. (.....)
2. The light energy that can be seen. (.....)
3. The mixture results from the solubility of solids in liquid. (.....)
4. The change of light rays directions when they transmit through the separating surface between two different transparent media. (.....)
5. Any natural area including living organisms and non-living things. (.....)
6. A relation between two living organisms that benefit from each other. (.....)

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South Sinai Governorate

Tur Sinai Educational Directorate

Answer the following questions :

1. [A] Complete the following :

(Saprophytism – iron – red – repel – mimicry – attract - copper – mutualism – camouflage – yellow)

1. From magnetic material and from non-magnetic material
2. and are from the ways of self-defence against predation in living organisms.
3. From primary coloured lights, and from secondary coloured lights
4. The like magnetic poles, but the dislike magnetic poles
5. The food relationship between nodular bacteria and bean, whereas the food relationship between fungi and dead bodies is

[B] What happens when ... ?

1. A magnet is hung to move freely.

2. Introducing rabbits into an island with much food and on natural enemies.

2. [A] Write the scientific term for each of the following statements :

1. The light that we can get by mixing two of the primary coloured light.
(.....)
2. The temporary food relationship that end by devouring the prey or a part of it.
(.....)
3. The regions of the magnet, where the magnetic force is most powerful.
(.....)
4. A darkened area formed when light falls on an opaque object.
(.....)

[B] Choose from column (A) what is suitable it from column (B) :

(A)	(B)
1. Glass prism	a. used to separate oil and water mixture.
2. Compass	b. change electric energy into magnetic energy.
3. Electromagnet	c. determine the main four directions.
4. Separating funnel	d. separating white light into seven spectrum colours.

1. 2. 3. 4.

3. [A] Choose the correct answer :

1. The relationship between sponge and tiny aquatic living organisms is
a. parasitism. b. commensalism. c. predation.
2. From the examples of liquid mixture
a. sand and water. b. lemon juice and water. c. sand and salt.
3. The result from solubility process is called
a. solute. b. solvent. c. solution.
4. Light transmits in lines.
a. straight b. curved c. broken
5. The speed of solubility increase by
a. increase the amount of solvent.
b. increasing the amount of solute.
c. decreasing temperature.

[B] Give reasons for :

1. Saprophytic organisms give great service to ecosystem.

.....

2. The red apple seems black when you look at it through a green glass sheet.

.....

4. [A] Put (✓) or (✗) :

1. Sun is the main source of the light on the Earth. (.....)

2. We can separate mixture of sand and water by filtration process. (.....)

3. Tiger is an example of extinct animals due to the change in natural conditions in the environment. (.....)

4. The electromagnet consists of copper coil only. (.....)

5. The banana fruit seems yellow as it reflect the green light colour. (.....)

[B] Compare between :

P.O.C	Filaria worm	Fleas
The diseases that cause :